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APPENDIX B

PENDING CLAIMS

- 1. (twice amended) A method for identifying a compound that modulates signal transduction in taste cells, the method comprising the steps of:
- (i) contacting a cell which expresses a taste cell specific G-protein alpha subunit polypeptide and a taste cell specific G protein coupled receptor with the compound, the G-protein alpha subunit polypeptide comprising greater than 70% amino acid sequence identity to a polypeptide having a sequence of SEQ ID NO:2; and
- (ii) determining a functional effect of the compound upon the cell expressing the taste cell specific G-protein alpha subunit polypeptide and the taste cell specific G protein coupled receptor, thereby identifying a compound that modulates signal transduction in taste cells.
- 2. ' (as filed) The method of claim 1, wherein the G-protein alpha subunit polypeptide specifically binds to polyclonal antibodies generated against SEQ ID NO:2.
- 3. (as filed) The method of claim 1, wherein the G-protein alpha subunit polypeptide is recombinant.
- 4. (as filed) The method of claim 1, wherein the functional effect is a chemical effect.
- 6. (once amended) The method of claim 1, wherein the functional effect is determined by measuring increased or decreased binding of radiolabeled GTP to the G-protein alpha subunit polypeptide or to a G protein comprising the G-protein alpha subunit polypeptide.

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(as filed) The method of claim 1, wherein the G-protein alpha subunit 7. polypeptide is from a mouse, a rat or a human.

(as filed) The method of claim 1, wherein the G-protein alpha subunit 8. polypeptide comprises an amino acid sequence of SEQ ID NO:2.